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UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner:

Group:

Attorney Docket # 1839

Applicant(s) : DE BLOCK, P., ET AL

Serial No. :

Filed :

For : WIPER BLADE FOR WINDOWS, IN PARTICULAR
MOTOR VEHICLES

SIMULTANEOUS AMENDMENT

October 22, 2001

Honorable Commissioner of Patents and Trademarks
Washington, D.C. 20231

S I R S:

Simultaneously with filing of the above identified application
please amend the same as follows:

In the Claims:

Cancel all claims without prejudice.

Substitute the claims attached hereto.


REMARKS:

This Amendment is submitted simultaneously with filing of the above identified
application.

With the present Amendment applicant has amended the claims so as to eliminate
their multiple dependency.

Consideration and allowance of the present application is most respectfully requested.

Respectfully submitted,



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2025-03-03 13:03:03

Claims

1
2
3 1. Wiper blade for windows, in particular of motor vehicles, with a long,
4 rubber-elastic wiper strip (14) that can be placed against the window (22), that is
5 situated parallel to the longitudinal axis on a long, spring-elastic carrier element
6 (12) to which a component (16) belonging to a device for attaching the wiper
7 blade (10) to a driven wiper arm (18) is directly connected, whereby the carrier
8 element (12) has springs (28, 30) designed in the shape of a strap lying in front
9 of the window (22) in a plane that is basically parallel to the window, the bottom
10 surfaces of the straps (13) of which face the window, the inner, adjacent
11 longitudinal edges (32) of which situated at a distance from each other plunge
12 individually into longitudinal grooves (54, 56) assigned to each longitudinal edge
13 and open toward the longitudinal side of the wiper strip, and connected to each
14 other by way of at least two transverse ribs (36) situated in the longitudinal
15 direction with distance between them, characterized in that at least one
16 transverse rib (36) has a center section (42) that extends at a distance from the
17 top strap surfaces (11) of the springs (28, 30) so that at least one bridge-like
18 transverse rib results, whereby the distance (34) between the two springs in
19 particular is less than the bridge width (46), and that means of attachment (74,
20 76, 78 and 174, 175, 176, 177, 178) are situated on the carrier element (12) to
21 secure the wiper strip (14) to the carrier element (12) in its longitudinal direction.
22

23 2. Wiper blade according to Claim 1, characterized in that the means of
24 attachment (74, 76, 78 and 174, 175, 176, 177, 178) can be brought into their
25 securing position after the wiper strip (14) is positioned on the carrier element
26 (12).
27

28 3. Wiper blade according to one of the Claims 1 [or 2], characterized in that
29 the means of attachment (74, 76, 78 and 174, 175, 176, 177, 178) are situated
30 on one of the transverse ribs (36 and 16).
31

1 4. Wiper blade according to [one of the Claims 1 through 3] Claim 1,
2 characterized in that the means of attachment are situated on a transverse rib
3 (36) located in the region of one of the end sections of the two springs (28, 30).
4

5 5. Wiper blade according to Claim 4, characterized in that the means of
6 attachment comprise an extension (74 and 174) designed in the shape of a
7 tongue that extends from the center section (42) of one transverse rib (36) to the
8 other end section of the two springs.
9

10 6. Wiper blade according to Claim 5, characterized in that the extension (74
11 and 174) designed in the shape of a tongue grips a cover strip (62) of the wiper
12 strip (14) with fixing means (78 and 177, 178) located above the two longitudinal
13 grooves (54, 56) as well as above the top strap surfaces (11) of the springs (28,
14 30).
15

16 7. Wiper blade according to Claim 5, characterized in that the extension
17 designed in the shape of a tongue has at least one projection pointing toward the
18 cover strip (62) of the wiper strip (14) as a fixing means.
19

20 8. Wiper blade according to Claim 7, characterized in that the projection (76)
21 is designed in the shape of a bezel on its free end.
22

23 9. Wiper blade according to one of the Claims 7 [or 8], characterized in that
24 multiple projections (175, 176) pointing toward the cover strip (62) are situated on
25 the extension (174) designed in the shape of a tongue as fixing means.
26

27 10. Wiper blade according to [one of the Claims 5 through 9] Claim 5,
28 characterized in that the transverse ribs (36) as well as the extension (74 and
29 174) designed in the shape of a tongue and connected with one of the transverse
30 ribs as a single part are made out of metal.
31

Claims

1. Wiper blade for windows, in particular of motor vehicles, with a long, rubber-elastic wiper strip (14) that can be placed against the window (22), that is situated parallel to the longitudinal axis on a long, spring-elastic carrier element (12) to which a component (16) belonging to a device for attaching the wiper blade (10) to a driven wiper arm (18) is directly connected, whereby the carrier element (12) has springs (28, 30) designed in the shape of a strap lying in front of the window (22) in a plane that is basically parallel to the window, the bottom surfaces of the straps (13) of which face the window, the inner, adjacent longitudinal edges (32) of which situated at a distance from each other plunge individually into longitudinal grooves (54, 56) assigned to each longitudinal edge and open toward the longitudinal side of the wiper strip, and connected to each other by way of at least two transverse ribs (36) situated in the longitudinal direction with distance between them, characterized in that at least one transverse rib (36) has a center section (42) that extends at a distance from the top strap surfaces (11) of the springs (28, 30) so that at least one bridge-like transverse rib results, whereby the distance (34) between the two springs in particular is less than the bridge width (46), and that means of attachment (74, 76, 78 and 174, 175, 176, 177, 178) are situated on the carrier element (12) to secure the wiper strip (14) to the carrier element (12) in its longitudinal direction.

2. Wiper blade according to Claim 1, characterized in that the means of attachment (74, 76, 78 and 174, 175, 176, 177, 178) can be brought into their securing position after the wiper strip (14) is positioned on the carrier element (12).

3. Wiper blade according to one of the Claims 1, characterized in that the means of attachment (74, 76, 78 and 174, 175, 176, 177, 178) are situated on one of the transverse ribs (36 and 16).

1 4. Wiper blade according to Claim 1, characterized in that the means of
2 attachment are situated on a transverse rib (36) located in the region of one of
3 the end sections of the two springs (28, 30).

4
5 5. Wiper blade according to Claim 4, characterized in that the means of
6 attachment comprise an extension (74 and 174) designed in the shape of a
7 tongue that extends from the center section (42) of one transverse rib (36) to the
8 other end section of the two springs.

9
10 6. Wiper blade according to Claim 5, characterized in that the extension (74
11 and 174) designed in the shape of a tongue grips a cover strip (62) of the wiper
12 strip (14) with fixing means (78 and 177, 178) located above the two longitudinal
13 grooves (54, 56) as well as above the top strap surfaces (11) of the springs (28,
14 30).

15
16 7. Wiper blade according to Claim 5, characterized in that the extension
17 designed in the shape of a tongue has at least one projection pointing toward the
18 cover strip (62) of the wiper strip (14) as a fixing means.

19
20 8. Wiper blade according to Claim 7, characterized in that the projection (76)
21 is designed in the shape of a bezel on its free end.

22
23 9. Wiper blade according to one of the Claims 7, characterized in that
24 multiple projections (175, 176) pointing toward the cover strip (62) are situated on
25 the extension (174) designed in the shape of a tongue as fixing means.

26
27 10. Wiper blade according to Claim 5, characterized in that the transverse
28 ribs (36) as well as the extension (74 and 174) designed in the shape of a tongue
29 and connected with one of the transverse ribs as a single part are made out of
30 metal.

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